

FORM PTO-1449, Adopted

LIST OF INFORMATION DISCLOSED BY APPLICANT (Use several sheets if necessary)

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|---------------------------------------|--------------------------|---------------------------------|
| ATTY. DOCKET NO. 19720-0624 | SERIAL NO. 09/457,771 | FILING DATE December 9, 1999 |
| APPLICANT R. Martin Emanuele et al | | GROUP 1635 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|----|-----------------|--------------------------------|-----------------|-----------------------|------------------------|-------------------------------|
| RS | AA | RE 29,909 | 02/13/79 | Kurtz | 514 252 | 772 89 | |
| | AB | 2,674,619 | 4/6/54 10/15/53 | Lundsted | 560 260 | 148 485 | |
| | AC | 2,854,378 | 09/30/58 | Buckwalter | 514 167 | 152 64 | |
| | AD | 2,979,528 | 04/11/61 | Lundsted | 564 260 | 505 584 | |
| | AE | 3,022,335 | 02/20/62 | Lundsted | 536 260 | 120 485 | |
| | AF | 3,036,118 | 05/22/62 | Jackson, et al. | 560 260 | 122 484 | |
| | AG | 3,089,818 | 05/14/63 | Stone | 515 167 | 541 65 | |
| | AH | 3,140,232 | 07/07/64 | Noseworthy | 514 167 | 2 65 | |
| | AI | 3,228,834 | 01/11/66 | Gans, et al. | 514 167 | 21 58 | |
| | AJ | 3,450,502 | 6/17/69 05/04/73 | Hymes | 422 23 | 45 258.5 | |
| RS | AK | 3,577,522 | 05/04/71 | Hymes | 424 | 78.38 | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | NAME | TRANSLATION YES NO. |
|----|----|-----------------|----------|---------------|----------------------------|------------------------|
| RS | AL | WO 87/06836 | 11/19/87 | International | Emory University | |
| RS | AM | 0 003 999 | 09/19/79 | Europe | Hoechst Aktiengesellschaft | |
| RS | AN | 0 049 422 | 09/23/81 | Europe | Miles Laboratories, Inc. | Yes |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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|----|----|---|
| RS | AO | Conforth, et al., "Antituberculous Effect of Certain Surface-Active Ethylene Ethers in Mice," <i>Chemical Abstracts</i> , Vol. 46, No. 2696 (1952) |
| | AP | Schmolka, "A Review of Block Polymer Surfactants," <i>Journal of the American Oil Chemists Society</i> , Vol. 54, No. 3, pp. 110-116 (1977) |
| | AR | <i>Block and Graft Copolymerization</i> , Vol. 2, ed. by R.J. Ceresa, John Wiley & Sons (1976) |
| RS | AS | Matsukara, et al. "Phosphorothioate Analogs of Oligodeoxynucleotides: Inhibitors of Replication and Cytopathic Effects of Human Immunodeficiency Virus," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 84, pp. 7706 (1987) |
| | AT | Technical Bulletin entitled "Performance Chemicals" |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|------------------|----|-----------------|----------|----------------|-------|----------|----------------------------|
| RS | DA | 4,937,070 | 06/26/90 | Hunter | 424 | 83 78.38 | |
| | DB | 4,997,644 | 03/05/91 | Hunter | 424 | 83 78.35 | |
| | DC | 5,017,370 | 05/21/91 | Hunter, et al. | 424 | 83 78.38 | |
| | DD | 5,028,599 | 07/02/91 | Hunter | 514 | 83 | |
| | DE | 5,030,448 | 07/09/91 | Hunter | 424 | 83 78.38 | |
| | DF | 5,032,394 | 07/16/91 | Hunter | 424 | 83 78.35 | |
| | DG | 5,039,520 | 08/13/91 | Hunter | 424 | 83 78.38 | |
| | DH | 5,041,288 | 08/20/91 | Hunter | 424 | 83 78.38 | |
| | DI | 5,047,236 | 09/10/91 | Hunter, et al. | 424 | 83 78.38 | |
| | DJ | 5,064,643 | 11/12/91 | Hunter, et al. | 424 | 83 78.38 | |
| RS | DK | 5,071,649 | 12/10/91 | Hunter | 424 | 78.38 | |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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| RS | DL | Hunter, et al., "Adjuvant Activity of Non-Ionic Block Copolymers. IV. Effect of Molecular Weight and Formulation on Titre and Isotype of Antibody," Vaccine, Vol. 9, pp. 250-256 (1991) |
| | DM | Takayama, et al., "Adjuvant Activity of Non-Ionic Block Copolymers. V. Modulation of Antibody Isotype Lipopolysaccharides, Lipid A and Precursors," Vaccine, Vol. 9, pp. 257-265 (1991) |
| | DN | Ketchum, et al., "Experimental Use of Pluronic® F-68 in Microvascular Surgery," Plastic and Reconstructive Surgery, Vol. 53, pp 288-292 (1974) |
| | DO | Schmolka, et al., "Artificial Skin I. Preparation and Properties of Pluronic® F-127 Gels for Treatment of Burns," J. Biomed. Mater. Res., Vol. 6, pp. 571-582 (1972) |
| | DP | Grover, et al., "A Non-Ionic Surfactant and Blood Viscosity," Arch. Surg. Vol. 106, pp 307-310 (1973) |
| | DR | Grover, et al., "The Effect of Pluronic® F-68 on Circulatory Dynamics and Renal and Carotid Artery Flow During Hemorrhagic Shock," Journal of Surgical Research, Vol. 17, pp 30-35 (1974) |
| | DS | Papadea, et al., "Effect of RheothRx™ Copolymer on Blood Viscosity Related to Fibrin (ogen) Concentration," FASEB J., Vol. 2, No. 4, pp. A384A, Abstract 512 (1988) |
| | DT | Hunter, et al., "Increased Whole Blood Viscosity During Coronary Bypass Surgery," Thromb. Haemost., Vol. 63, No. 1, pp. 6-12 (1990) |
| | | Mezrow, et al., "Poloxamer 188 Improves Neurologic Outcome after Hypothermic Circulatory Arrest," J. Thorac. Cardiovas. Surg., Vol. 103, No. 6, pp. 1143-1146 (1992) |
| RS | DU | Nagata, et al., "Clinical Evaluation on the Effect of Poloxamer 188 on the Hemolysis During Cardiopulmonary Bypass," J. Aichi. Med. Univ. Assoc., Vol. 11, No. 1, pp. 48-54 (1983) |

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|------------------|-------|-----------------|----------|----------------|-------|----------|----------------------------|
| RS | EA | 5,078,995 | 01/07/92 | Hunter, et al. | 424 | 78.38 | |
| RS | EB | 5,080,894 | 01/14/92 | Hunter, et al. | 424 | 78.38 | |
| RS | EC | 5,089,260 | 02/18/92 | Hunter, et al. | 424 | 78.38 | |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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| RS | ED | William, et al., "Modulation of Rat Granulocyte Traffic by a Surface Active Agent in Vitro and Bleomycin Injury," <i>Proceedings of the Society for Experimental Biology and Medicine</i> , Vol. 188, pp. 461-470 (1988) |
| | EE | Block, et al. "Acutely Traumatized Canine Ureter. Effects of Low Molecular Weight Dextran and Surfactant Pluronic® F-68," <i>Urology</i> , Vol. 3, No. 2, pp. 190-194 (1974) |
| | EF | Knize, et al. "Use of Antisludging Agents in Experimental Cold Injuries," <i>Surgery, Gynecology & Obstetric</i> , Vol. 129, pp. 1019-1026 (1969) |
| | EG | Gaetgens, et al., "Disaggregation of Human Red Blood Cells by Various Surface-Active Agents as Related to Changes of Cell Shape and Hemolysis," <i>Acta Haemat.</i> Vol. 53, pp. 82-89 (1975) |
| | EH | Lane, et al., "Reduction in the Toxicity of a Component of an Artificial Blood Substitute by Supercritical Fluid Fractionation," <i>Transfusion</i> , Vol. 28, pp. 375-378 (1987) |
| | EI | Atkinson, et al., "Ion Transport Mediated by Copolymers Composed of Polyoxyethylene and Polyoxypropylene," pp. C20-C26 (1988) |
| | EJ | Ketchum, L.D., "Pharmacological Alterations in the Clotting Mechanism: Use in Microvascular Surgery," <i>Journal of Hand Surgery</i> , Vol. 3, pp. 407-415 (1978) |
| | EK | Benner, et al. "Über die Wirkung von Pluronic® F-68, einem Polyoxypropylen-Polyoxyethylen-Kondensat auf die ADP-induzierte Thromobocytenaggregation <i>in Vitro</i> (The Effect of Pluronic® F-68, a Polyoxypropylene/Polyoxyethylene Condensate, on ADP-Induced Platelet Aggregation <i>in Vitro</i>)," <i>Pflügers Arch.</i> , Vol. 2, pp. 331-342 (1973) |
| | EL | Benner, et al., "Cold-Induced Platelet Aggregation <i>In Vivo</i> and Its Inhibition by a Nonionic Surface Active Substance," <i>Thrombosis Research</i> , Vol. 2, pp. 331-342 (1973) |
| | EM | Hoie, et al., "Effects of Pluronic® F-68, Poloxalkol, On Vascular Resistance <i>in Vivo</i> ," <i>Journal of Surgical Research</i> , Vol. 11, pp. 515-517 (1971) |
| | EN | Hymes, et al., "The Influence of an Industrial Surfactant Pluronic® F-68, In the Treatment of Hemorrhagic Shock," <i>Journal of Surgical Research</i> , Vol. 11, pp. 191-197 (1971) |
| | EO | Vasko, et al., "Poloxalkol® (Pluronic® F-68): A Priming Solution for Cardiopulmonary Bypass," <i>Trans. Am. Soc. Artif. Int. Organs</i> , Vol. 18, pp. 526-531 (1972) |
| | EP | Rodeheaver, G.T., "Pluronic® F-68: A Promising New Skin Wound Cleanser," <i>Ann Emerg. Med.</i> , Vol. 9, No. 11, pp. 572-576 (1980) |
| | ER | Rodeheaver, et al., "Mechanical Cleansing of Contaminated Wounds with a Surfactant," <i>J. Biochem. Interactions</i> , Vol. 83, pp. 153-1510s (1975) |
| | ES | Kondo, et al., "Prolonged Suspended Animation in Puppies," <i>Cryobiology</i> , Vol. 11, No. 5, pp. 446-451 (1974) |
| | ET | Sakauchi, "Prevention of Excess Hemolysis During Cardiopulmonary Bypass by the Use of Pluronic® F-68," <i>Kitakanto Med. J.</i> , Vol. 23, No. 3, pp. 231-238 (1973) |
| RS | EU | Hunter, et al., "The Adjuvant Activity of Nonionic Block Polymer Surfactants. III. Characterization of Select Biologically Active Surfaces," <i>Scand. J. Immunol.</i> Vol. 23, pp. 287-300 (1986) |

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|------------------|----|-----------------|----------|------------------|-----------------------|-----------------------|----------------------------|
| RS | CA | 4,409,209 | 10/11/83 | Baschang, et al. | 514 424 | 8 177 | |
| | CB | 4,410,660 | 10/18/83 | Straus | 525 | 54.1 | |
| | CC | 4,423,038 | 12/27/83 | Baschang, et al. | 514 424 | 8 177 | |
| | CD | 4,489,158 | 12/18/84 | Straus | 435 | 7.32 | |
| | CE | 4,575,484 | 03/11/86 | Straus | 435 | 7.32 | |
| | CF | 4,606,918 | 08/19/86 | Allison, et al. | 424 | 88-279.1 | |
| | CG | 4,609,546 | 09/02/86 | Hiratani | 424 | 88-78.3 94-43.3 | |
| | CH | 4,801,452 | 01/31/89 | Hunter, et al. | 424 | 94-63 | |
| | CI | 4,837,014 | 06/06/89 | Hunter, et al. | 424 | 98-94.63 | |
| | CJ | 4,873,083 | 10/10/89 | Hunter, et al. | 424 424 | 1.44 83 | |
| | CK | 4,879,109 | 11/07/89 | Hunter | 514 424 | 723 83 | |
| RS | CL | 4,897,263 | 01/30/90 | Hunter | 514 424 | 723 83 | |

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|----|----|-----------------|----------|---------------|---------------------------------------|-------------|----|
| | | | | | | YES | NO |
| RS | CM | 0 000 704 | 02/21/79 | Europe | Bayer AG | | |
| | CN | WO 87/06836 | 11/19/87 | International | Emory University | | |
| | CO | WO 92/16484 | 10/01/92 | International | Cytrx Corporation | | |
| | CP | WO 93/08845 | 05/13/93 | International | Massachusetts Institute of Technology | | |
| RS | CR | 0 121 752 | 10/17/84 | Europe | Behringwerke AG | | |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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| RS | CS | Hunter, et al. "Nonionic Block Copolymers Surfactants as Immunological Adjuvants: Mechanisms of Action and Novel Formulations," <i>Immunological Adjuvants and Vaccines</i> , ed. by Gregoriadis, G. et al., Plenum Publishing Corp., pp. 133-144 (1989) |
| RS | CT | Hunter, et al. "The Adjuvant Activity of Nonionic Block Polymer Surfactants. I. The Role of Hydrophile-Lipophile Balance," <i>J. Immun.</i> , Vol. 127, No. 3 (1981) |

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|---------------------|----|-----------------|----------|------------------|-----------------------|-------------------------|-------------------------------|
| RS | BA | 3,590,125 | 06/29/71 | Hymes | 424 | 78.38 | |
| | BB | 3,641,240 | 02/08/72 | Hymes, et al. | 424 | 78.38 | |
| | BC | 3,740,421 | 06/19/73 | Schmolka | 424 | 65 65 | |
| | BD | 3,867,521 | 02/18/75 | Miskel, et al. | 424 | 37 457 | |
| | BE | 3,867,533 | 02/18/75 | Schmolka | 514 424 | 311 298 | |
| | BF | 3,956,259 | 05/11/76 | Garcia, et al. | 530 260 | 380 332.5 | |
| | BG | 4,073,886 | 02/14/78 | Kehm | 530 260 | 383 332 | |
| | BH | 4,100,271 | 07/11/78 | Krezanoski | 514 424 | 11 028 | |
| | BI | 4,323,560 | 04/06/82 | Baschang, et al. | 514 424 | 8 177 | |
| | BJ | 4,395,393 | 07/26/83 | Schmolka | 514 424 | 672 78 | |
| RS | BK | 4,407,790 | 10/04/83 | Oakes, et al. | 514 424 | 723 78 | |

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| | | DOCUMENT NUMBER | DATE | COUNTRY | NAME | TRANSLATION YES | NO. |
|----|----|-----------------|----------|---------|----------------------------|--------------------|-----|
| RS | BL | 27 08 152 | 09/08/77 | Germany | Flow Pharmaceuticals, Inc. | | X |
| | BM | 0 103 290 | 09/10/83 | Europe | Intermedicat GMBH | | X |
| | BN | 2 081 436 | 01/14/71 | France | R.P. Cherer Corporation | | X |
| RS | BO | 0 011 237 | 05/28/80 | Europe | Bayer AG | | X |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

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|----|----|---|
| RS | BP | Moore, et al., "Reduction of Splenic Vascular Resistance During Profusion by Pluronic® F-68," <i>Journal Surgical Research</i> , Vol. 8, pp. 563-566 (1968) |
| | BR | Snippe, et al., "Adjuvant Effect of Nonionic Block Polymer Surfactants in Humoral and Cellular Immunology," <i>Int. Archs Allergy Appl. Immun.</i> Vol. 65, pp. 390-398 (1981) |
| | BS | Byars, et al., "Adjuvant formulation for us in Vaccines to Elicit Both Cell-mediated and Humoral Immunology," <i>Vaccine</i> , Vol. 5, pp. 223-228 (1987) |
| | BT | Pator, et al., "The Use of a Nonionic Detergent Added to Organ Perfusates," <i>Organ Perfusion and Preserv.</i> , ed. by Norman, J.C. Appleton-Century-Crofts, pp. 105-120 (1968) |
| RS | BU | Technical Bulletin entitled "Pluronic® Block Copolymer Surfactants" |

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